S3700 SATA MLC Enterprise SSDs for IBM System x

Consistent high performance in a heavy endurance design

Highlights

- Write-intensive performance and heavy endurance with consistent low latencies and tight IOPS distribution
- 25 nm eMLC flash memory High Endurance Technology
- End-to-end data protection against data loss and corruption, power loss, and AES-256 support
- Capacities of 200/400/800 GB

Solid-state drives (SSDs) serve an integral role in data acceleration and optimizing storage for an efficient data center. With increasing demands for lower latency and faster throughput, data center SSDs are being designed for workload performance. As flash memory technology continues to evolve, SSD design choices should be made specific to the requirements of an application workload to maximize storage optimization in delivering value that can ultimately tie to bottom line improvement.

The S3700 SATA MLC Enterprise SSDs for IBM® System x® are designed for write-intensive workloads such as database, HPC, virtualization, and Big Data. The SSDs feature the newest Intel controller and leading edge 25 nm high endurance eMLC flash technology that delivers consistent high performance with heavy endurance along with end-to-end data protection for the data center.

Consistent high performance

Workloads benefit from the 50/65 µs typical latency with 4 KB random read performance of up to 75,000 IOPS and write performance to 36,000 IOPS. Bandwidth R/W performance is a fast 500 MBps/650 MBps.

High endurance technology

Next generation enterprise-grade SSD technology that is based on 25 nm eMLC flash and Intel's latest controller technology. Designed for write-intensive, heavy endurance workloads delivering a 10 DWPD endurance up to 14.6 PB TBW for 800 GB capacity.

End-to-end data protection

Assuring integrity of the data lifecycle by protecting against possible data corruption and power loss. Also protecting data in transit and improving data assurance with data redundancy technology as well as support for AES-256 encryption.

S3700 SATA MLC Enterprise Value Solid State Drives for IBM System x at a glance	
Part number/capacity	41Y8331/S3700 200 GB SATA 2.5-inch MLC HS Enterprise SSD for IBM System x 41Y8351/S3700 200 GB SATA 2.5-inch MLC SS Enterprise SSD for IBM System x 41Y8336/S3700 400 GB SATA 2.5-inch MLC HS Enterprise SSD for IBM System x 41Y8356/S3700 400 GB SATA 2.5-inch MLC SS Enterprise SSD for IBM System x 41Y8341/S3700 800 GB SATA 2.5-inch MLC HS Enterprise SSD for IBM System x 41Y8361/S3700 800 GB SATA 2.5-inch MLC SS Enterprise SSD for IBM System x 41Y8366/S3700 200 GB SATA 1.8-inch MLC Enterprise SSD for IBM System x 41Y8371/S3700 400 GB SATA 1.8-inch MLC Enterprise SSD for IBM System x
Form factor	1.8-inch, 2.5-inch, 3.5-inch
Interface	6 GBps SATA
NAND technology	25 nm eMLC
Target application workload	Write-intensive such as database, HPC, virtualization, and Big Data
Max performance	
Random reads @ 4 KB	75,000 IOPS
Random writes @ 4 KB	36,000 IOPS
Endurance (TBW)	200 GB: up to 3,650 TB
	400 GB: up to 7,300 TB
	800 GB: up to 14,600 TB

Why IBM?

IBM offers a single point of serviceability backed by renowned education, support and training. In addition, the S3500 SATA MLC Enterprise Value SSDs are part of the IBM ServerProven® program, enabling compatibility among a variety of IBM and partner products.

For more information

To learn more about the S3700 SATA MLC Enterprise SSDs for IBM System x, please contact your IBM representative or IBM Business Partner, or visit the following website: **ibm.com**/systems/x/options/storage/solidstate/s3700_sata_mlc/index.html

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